

Run on: August 19, 2003, 15:23:30 ; Search time 467 Seconds

(Without alignments)
4375.749 Million cell updates/sec

Title: US-09-494-297-2
Perfect score: 3945
Sequence: 1 MKKTRFPNKLNTLQRYLS.....IAGISLGINCIIHTRIRKHD 757

Scoring table:		BLOSUM62
xgapop	10.0	xgapext 0.5
ygapop	10.0	ygapext 0.5
fgapop	6.0	fgapext 7.0
delop	6.0	delext 7.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters:

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Command line parameters:

0-c/gn2.1/VSFO.spool.0/US0494297/runat.13082003.122446.280802/app.query.fasta.1.903
DB-N.GeneSeq.19n030.0/SMFAST.fastap-SUPFIR.xing-MINMATCH-0.1-LOOCPCL-0
-LOOPEXT-0-UNITS-bits-START-1-END-1-MHRR-MAX100-THR.MIN-0-ALIGN-15
-LIST-5-DOCLIMIT-200-THR.SCORE-PCT-THR.MAX10-THR.MIN-0-MAXLEN-2000000000
-MODE-LOCAL-OUTFMT-pltc-NORM-ext-HEAPSIZE-500-MINLEN-0-MAXLEN-2000000000
-USER-US0494297.GCCL-1.3.304.runatC.13082003.122446.280802-NCU-6-ICPU-3
-NO-MMAP-LABELDERRI-MISC-SCORES-0-WAIT-DSPBLOCK-100-LOADLOG
-DEV.TIMEOUT-120-WARN.TIMEOUT-30-THREADS-1-XGAOP-10-XGAPEXT-0.5-FGAOP-6
FGAPEXT-7-YGAOP-10-YGAEXT-0.5-DELOP-6-DELEXT-7

Database : N_Geneseq_19Jun03:*

1	/SIDS1/gcgdata/genseq/genseqn-emb1/NA1980.DAT *
2	/SIDS1/gcgdata/genseq/genseqn-emb1/NA1981.DAT *
3	/SIDS1/gcgdata/genseq/genseqn-emb1/NA1982.DAT *
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7	/SIDS1/gcgdata/genseq/genseqn-emb1/NA1986.DAT *
8	/SIDS1/gcgdata/genseq/genseqn-emb1/NA1987.DAT *
9	/SIDS1/gcgdata/genseq/genseqn-emb1/NA1988.DAT *
10	/SIDS1/gcgdata/genseq/genseqn-emb1/NA1989.DAT *
11	/SIDS1/gcgdata/genseq/genseqn-emb1/NA1990.DAT *
12	/SIDS1/gcgdata/genseq/genseqn-emb1/NA1991.DAT *
13	/SIDS1/gcgdata/genseq/genseqn-emb1/NA1992.DAT *
14	/SIDS1/gcgdata/genseq/genseqn-emb1/NA1993.DAT *
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16	/SIDS1/gcgdata/genseq/genseqn-emb1/NA1995.DAT *
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18	/SIDS1/gcgdata/genseq/genseqn-emb1/NA1997.DAT *
19	/SIDS1/gcgdata/genseq/genseqn-emb1/NA1998.DAT *
20	/SIDS1/gcgdata/genseq/genseqn-emb1/NA1999.DAT *
21	/SIDS1/gcgdata/genseq/genseqn-emb1/NA2000.DAT *
22	/SIDS1/gcgdata/genseq/genseqn-emb1/NA2001A.DAT *
23	/SIDS1/gcgdata/genseq/genseqn-emb1/NA2001B.DAT *
24	/SIDS1/gcgdata/genseq/genseqn-emb1/NA2002.DAT *
25	/SIDS1/gcgdata/genseq/genseqn-emb1/NA2003.DAT *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed

and is derived by analysis of the total score distribution

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	3945	100.0	2286	24	ABN69678	Streptococcus poly
2	236.5	6.0	1020	24	ABN69661	Streptococcus poly
3	196	5.0	15614	20	AAK12982	Enterococcus faeca
4	196	5.0	15614	24	ABN98777	Enterococcus faeca
5	180	4.6	2127	21	AAA30874	Streptococcus equi
6	178	4.5	7650	20	AAV82019	Moraxella catarrha
7	177	4.5	49617	22	AAE28541	Genomic fragment #
8	176	4.5	2718	20	AAV82021	Moraxella catarrha
9	161	4.1	4161	24	ABO69442	Listeria innocua D
10	161	4.1	4185	24	ABO67871	Listeria innocua D
11	161	4.1	4249	20	AAK70201	Enterococcus faeca
12	161	4.1	4249	24	ABN88186	E faecalis EPI04 g
13	161	4.1	4249	25	ABK61756	Enterococcus faeca
14	161	4.1	4359	20	AAK70200	Enterococcus faeca
15	161	4.1	4359	24	ABN98185	E faecalis EPI04 g
16	161	4.1	4359	25	ABK61755	Enterococcus faeca
17	161	4.1	12445	20	AAK31319	Enterococcus faeca
18	161	4.1	12445	24	ABN98974	Enterococcus faeca
19	161	4.1	1163020	24	ABO67197	Listeria innocua c
20	161	4.1	3011208	24	ABO669245	Listeria innocua D
21	159	4.0	4593	24	ABO68111	Listeria monocytog
22	159	4.0	4593	24	ABO70032	Listeria monocytog
23	159	4.0	2844528	24	ABK03041	Listeria monocytog
24	156	4.0	4557	24	ABK75341	Bacillus lichenifo
25	155	3.9	2499	24	ABO68824	Listeria monocytog
26	155	3.9	2499	24	ABO69824	Listeria monocytog
27	155	3.9	2844528	24	ABK03041	Listeria monocytog
28	154	3.9	5547	18	AAE68844	Photorhabdus lumin
29	152.5	3.9	6042	19	ABO69231	Listeria sp DNA se
30	152	3.9	5547	19	AAV92930	toda gene from the
31	152	3.9	7551	18	AAE68843	Photorhabdus lumin
32	152	3.9	7551	19	AAV92928	toda gene from the
33	152	3.9	7551	22	AAE58778	Photorhabdus toda
34	152	3.9	7551	24	ABN52583	P. luminescens (W-
35	152	3.9	7557	22	AAE58760	Modified Photorhab
36	152	3.9	7621	20	AAE58763	toda toxin-zeln ER
37	150	3.8	3531	22	AAE77451	S. pyogenes SFBP-
38	150	3.8	3698	24	AAE5550	Streptococcal fibr
39	149	3.8	2700	21	AAK7561	Human Hsp72 (heat
40	149	3.8	3945	25	AAK77593	S. aureus 54rd DNA
41	149	3.8	4143	25	ABK14918	Pathogen specific
42	149	3.8	6168	20	AAK20228	Enterococcus faeca
43	149	3.8	6168	20	AAK20230	Enterococcus faeca
44	149	3.8	6168	20	AAK20232	Enterococcus faeca
45	149	3.8	6168	24	ABN98213	E faecalis EPI23 g

ALIGNMENTS

	RESULT	1
ABN69678		
ID	ABN69678	standard; DNA; 2286 BP.
XX		
AC	ABN69678;	
XX		
DT	01-JUL-2002	(first entry)
XX		
DE	Streptococcus polynucleotide SEQ ID NO 7269.	
XX		
KW	Streptococcus; GAS; GBS; group B streptococcus; Streptococcus agalactiae;	
KM	group A streptococcus; Streptococcus pyogenes; antibacterial; gene;	
KW	antiinflammatory; Infection; vaccine; meningitis; gene therapy; ds.	
XX		
OS	Streptococcus pyogenes.	
XX		
NN	WO200234771-A2.	

QY 461 ArgAspLeuPheLysTyrThrValLysProArgAspThrAspProAspThrPheLeuLys 480
DB 1396 CGTACCTCTTAAATATACGTGAACCAAGACATCCGATCTGACACTCTTTTAAA 1455
QY 481 HistLeuLysValLleGluLysGlyTyrArgLysGlyGlnAlaLleGlyTyrSer 500
DB 1456 CATATCAAAAAGAAATGAGAAAGGTTACAGGAAAAAGCAAGCAATGATGATAGT 1515
QY 501 GlyLeuThrGluThrGlnLeuArgAlaAlaThrGlnLeuAlaLleTyrTyrPheThrAsp 520
DB 1516 GGCTACTAGACACATTCGCGGCTACTACTAGTACCAATATATATTCACATGAT 1575
QY 521 SerAlaLeuLeuAspLysAspLysLeuLysAspTyrHisGlyPheGlyAspMetAsp 540
DB 1576 AGTCTGAATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGAT 1635
QY 541 SerThrLeuAlaAlaAlaLysLleLeuValGluTyrAlaGlnAspSerAsnProGln 560
DB 1636 AGTACTTACAGATGCTAAATCCCTTGAGAAATACCTCAAGATATATCCCTCCACAG 1695
QY 561 LeuThrAspLeuAspPhePheLeuProAsnAsnLysTyrGlnSerLeuLleGlyTyr 580
DB 1696 CTACTGACCTGATTTCTTATTCGCAATACATTAATATATCTTATTTGAACT 1755
QY 581 GlnThrHisProGluAspLeuValAspLleLleArgMetGluAspLysGluValLle 600
DB 1756 CAGTGGCATCCAGAAATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGAT 1815
QY 601 ProValThrHisAsnLeuThrLeuArgLysThrValThrGlyLeuAlaGlyAspParGthr 620
DB 1816 CCGTATCACTATATATTAACATTCGAGAAAAACGTCATCGTTACTGCTGACACAACT 1875
QY 621 LysAspPheHisPheGluLleGluLysAsnAsnLysGlnLleLeuLeuSerGlnThr 640
DB 1876 AAAGATTCATTTGAAATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGAT 1935
QY 641 ValLysThrAspLysThrAsnLeuGluLysAspGlyLysAlaThrLleAsnLeuLys 660
DB 1936 GTTAAACACATTAACCAACCTCGAATTTAAAGATTAAGATTAAGATTAAGATTAAGAT 1995
QY 661 HisGlyLysSerLeuThrLeuGlnLysLeuProGluGlyTyrSerTyrLeuValLysGlu 680
DB 1996 CAGGGGAAAGTTAACTCACTTCAAGGTTTACCGAAGGTTATCTTACCTGCAAGAA 2055
QY 681 ThrAspSerGluLysTyrLysValLysValAsnSerGlnLysValAlaAsnAlaThrVal 700
DB 2056 ACAGATTCGAAAGCTATTAAGTTAAAGTTAAAGTTAAAGTTAAAGTTAAAGTTAAAGTT 2115
QY 701 SerLysThrGlyLleThrSerAspGluThrLeuAlaPheGluAsnLysGluProVal 720
DB 2116 TCAAAAACAGAAATTAACAGATTAAGTTAAAGTTAAAGTTAAAGTTAAAGTTAAAGTT 2175
QY 721 ValProThrGlyValAspGlnLysLleAsnGlyTyrLeuAlaLeuLleValLleAlaGly 740
DB 2176 GTTCCATACAGAGTTATCAAAAAGATTAAGTTAAAGTTAAAGTTAAAGTTAAAGTTAAAGTT 2235
QY 741 HisSerLeuGlyLleThrGlyLleHisThrLleArgLysHisAsp 757
DB 2236 ATCAGTTTGGGATCTGGGAAATTCACAGATTAAGATTAAGATTAAGATTAAGATTAAGAT 2286

RESULT 2
ABN69681 standard; DNA: 1020 BP.
XX ABN69681;

DE 01-JUL-2002 (first entry)
XX Streptococcus polynucleotide SEQ ID NO 7275.
KM Streptococcus; GAS; GBS; group B streptococcus; Streptococcus agalactiae;
KM group A streptococcus; Streptococcus pyogenes; antibacterial; gene;
KM antiinflammatory; infection; vaccine; meningitis; gene therapy; ds.

XX XX
OS Streptococcus pyogenes.
XX
PN WO200234771-A2.
XX
PD 02-MAY-2002.
XX
PF 29-OCT-2001; 2001WO-GB04789.
XX
XX 27-OCT-2000; 2000GB-0026333.
PR 24-NOV-2000; 2000GB-0028727.
PR 07-MAR-2001; 2001GB-0005640.
XX
PA (CHIR-) CHIRON SPA.
PA (GENO-) INST GENOMIC RES.
PI Telford J, Maignan V, Margalit Ros YI, Grandi G, Fraser C;
PI Telford H;
DR WPI; 2002-352536/38.
DR P-PDB; ABP29050.
XX
PT New Streptococcus protein for the treatment or prevention of infection
PT or disease caused by Streptococcus bacteria, such as meningitis, and
PT for detecting a compound that binds to the protein.
XX
PS Claim 7; Page 3880; 4525pp; English.
XX
CC The invention relates to a protein (ABP25413-ABP30895) from group B
CC Streptococcus/GBS (Streptococcus agalactiae) or group A streptococcus/GAS
CC (Streptococcus pyogenes), comprising one of 5483 sequences (S1), given in
CC the specification. The proteins have antibacterial and antiinflammatory
CC activity. (I), nucleic acids encoding (I), ABN6044-ABN71526 and
CC antibodies that bind (I) are used in the manufacture of medicaments for
CC the treatment or prevention of infection or disease caused by
CC Streptococcus bacteria, particularly S. agalactiae and S. pyogenes.
CC Nucleic acids encoding (I) are used to detect Streptococcus in a
CC biological sample. (I) is used to determine whether a compound binds to
CC (I). A composition comprising (I) or a nucleic acid encoding (I), may be
CC used as a vaccine or diagnostic composition. The disease caused by
CC Streptococcus that is prevented or treated may be meningitis. Nucleic
CC acid encoding (I) may be used to recombinantly produce (I) and may be
CC used in gene therapy. Antibodies to (I) are used for affinity
CC chromatography, immunoassays, and distinguishing/identifying
CC Streptococcus proteins.
XX
SQ Sequence 1020 BP; 375 A; 162 C; 196 G; 287 T; 0 other;
XX
Alignment Scores:
Pred. No.: 1,83e-09 Length: 1020.
Score: 236.50 Matches: 96
Percent Similarity: 40.438 Conservative: 54
Best Local Similarity: 25.888 Mismatches: 118
Query Match: 5.99% Indels: 103
DB: 24 Gaps: 16
US-09-494-297-2 (1-757) x ABN69681 (1-1020)
QY 404 ThrThrGlnAsnTyrAlaLysPheTyrTyrAlaLysAsnLysAsn-----GlySerSer 421
DB 73 ACTGTTGTAACAGGAGCAACTACACTTCAAAAACCTGATTTGTTAATACAT 132
QY 422 GlnValValTyrCysPheAsnAlaAspLeuLysSerProPasp-----SerGlu 438
DB 133 GCATTAAATCCAAATACAGATTTCATTTAAATTCGAACCTGATACTACTGTCACAGAA 192
QY 439 AspGlyGlyLysThrMetThrProAspPheThrGlyGluValLysTyrThrHisLle 458
DB 193 GACGGAATTAAGTTAAAGGTTGCTGCTTGAACACACCGATTAAGTCACTTAC--- 249
QY 459 AlaGlyArgAspLeuPheLysTyrThrValLysProArgAspThrAspProAspThrPhe 478
DB 250 -----ACCAATTCAGAT----- 261